

Attorney Docket No. 50277-1763

Confirmation No.: 2140

Group Art Unit No.: 2171-2/6/

3/11

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

)

In re application of:

Sashikanth Chandrasekaran, et al.	)	
	)	Examiner: Te Y. Chen

Serial No.: 10/056,716

Filed on: January 22, 2002

E--- OPMANITIO DEGRONGE TO LOCK DEGREE

SEMANTIC RESPONSE TO LOCK REQUESTS TO REDUCE COHERENCE OVERHEAD IN

IN MULTI-NODE SYSTEMS

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## DISCLOSURE PURSUANT TO 37 CFR §1.56 OF RELATED APPLICATION(S)

Sir:

Applicant(s) would like to bring to the Examiner's attention that the following applications,

DAC

U.S. Application/ Pat. No.	File Date	Atty. Docket. No.
Serial No. 09/746,580	12/20/2000	50277-0410
Serial No. 09/798,618	03/01/2001	50277-1593
Serial No. 09/798,617	03/01/2001	50277-1588
Serial No. 09/871,853	05/31/2001	50277-1653
Serial No. 10/092,047	03/04/2002	50277-1776
Serial No. 10/091,618	03/04/2002	50277-1725
Serial No. 10/435,229	05/09/2003	50277-2200

9/22/05

referred to as the "related applications", contain subject matter that is related to the subject matter of the present application. The related applications may contain one or more claims that are substantially similar to one or more claims in the present application, and those claims may have been rejected in the related applications. Therefore, the Examiner is encouraged to review

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)  OT 18 200  U.S. PATENT DOCUMENTS No.  U.S. Patent Document Initial No.  U.S. Patent Document Number Kind Code* (If known)  OFC  6,587,921  Chiu, et al.  T/1/2003  SERIAL NO. 10/056,716  APPLICANT: Chandrasekaran, et al.  FILING DATE: 1/22/02  2+71 2/6/  Date of Publication of Cited Document MM-DD-YYYY Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	IN AN APPLICATION  (PTO-1449)  (PTO-1449)  (PTO-1449)  U.S. PATENT DOCUMENTS  Exam. Voice Initial*  No. Voice Vision of Cited Document Number Kind Code? (If known)  (If known)  (In AN APPLICATION
APPLICANT: Chandrasekaran, et al.  FILING DATE: 1/22/02  U.S. PATENT DOCUMENTS  U.S. Patent Document No.¹  Number Kind Code² (If known)  Number Kind Code² (If known)  APPLICANT: Chandrasekaran, et al.  FILING DATE: 1/22/02  Date of Publication of Cited Document MM-DD-YYYY  Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	APPLICANT: Chandrasekaran, et al.  FILING DATE: 1/22/02  U.S. PATENT DOCUMENTS  Exam. No.   U.S. Patent Document   Name of Patentee or Applicant of Cited Document   Number   Kind Code² (If known)   Number   Kind Code² (If known)   Number   Relevant   Passages or    APPLICANT: Chandrasekaran, et al.  FILING DATE: 1/22/02  Date of Publication of Cited Document   Lines, Where   Relevant   Passages or    Pages, Columns,   Lines, Where   Relevant   Passages or    Passages or   Pages, Columns,   Cited Document   Number   Relevant   Passages or    Pages, Columns,   Cited Document   Number   Relevant   Passages or    Pages, Columns,   Cited Document   Number   Relevant   Passages or    Pages, Columns,   Cited Document   Number   Relevant   Passages or    Pages, Columns,   Cited Document   Cited Document   Pages, Columns,    Pages, Columns,   Cited Document   Pages, Columns,    Pages
U.S. PATENT DOCUMENTS    Exam.   Cited Document   Number   Kind Code <sup>2</sup>   (If known)   Number   (If known)	U.S. PATENT DOCUMENTS  Exam.   Cite   U.S. Patent Document   Name of Patentee or Applicant   Of Cited Document   Number   Kind Code <sup>2</sup>   (If known)   Number   (If known)   Passages or   Passages or
Exam.  One Initial*  U.S. Patent Document  Number  Kind Code*  (If known)  Name of Patente or Applicant of Cited Document  MM-DD-YYYY  MM-DD-YYYY  Passages or Relevant Figures Appear	Exam. Cite   U.S. Patent Document   Name of Patentee or Applicant   Date of Publication of   Pages, Columns,   Cited Document   Lines, Where   Number   Kind Code <sup>2</sup>   (If known)   Passages or   Pages, Columns,   Cited Document   MM-DD-YYYY   Relevant   Passages or   Pages, Columns,   Cited Document   MM-DD-YYYY   Relevant   Pages, Columns,   Cited Document   Cited Document   Cited Document   MM-DD-YYYY   Relevant   Pages, Columns,   Cited Document   Cited
Exam.  One Initial*  U.S. Patent Document  Number  Kind Code*  (If known)  Name of Patente or Applicant of Cited Document  MM-DD-YYYY  MM-DD-YYYY  Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Exam. Cite   U.S. Patent Document   Name of Patentee or Applicant   Date of Publication of   Pages, Columns,   Cited Document   Lines, Where   Number   Kind Code <sup>2</sup>   (If known)   Passages or   Pages, Columns,   Cited Document   MM-DD-YYYY   Relevant   Passages or   Pages, Columns,   Cited Document   MM-DD-YYYY   Relevant   Pages, Columns,   Cited Document   Cited Document   Cited Document   MM-DD-YYYY   Relevant   Pages, Columns,   Cited Document   Cited
6,587,921 Chiu, et al. 7/1/2003	Appear
	<b>Orc</b> 6,587,921 Chiu, et al. 7/1/2003

Exam. Cite Initial* No. 1		Fo	reign Patent	Document	Name of Patentee or Applicant	Date of	Pages,	T
	No.'	Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)	of Cited Document Publica Cit Document MM-	of Cited Document Publication of Columns Cited Lines, Wh Document MM-DD- Passages YYYY Relevan Figures	Columns, Lines, Where Relevant Passages or Relevant Figures Appear	-

Examiner	M	M	10	Date Considered
Signature	le	du.	then	9/20/05

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

	_	₹.		w =							
	OF					LICAT	RE CITATION	ATTY. DOCKET 50277-1763	NO.	SERIAL NO 10/056,710	
	(PTO-1449)							APPLICANT: Sashikanth Char	ndrasekaran, et a	d	
E. S.								FILING DATE: January 22, 2002	2	GROUP: <del>2171</del> 2/6	/
5	U.S. PATENT DOCUMENTS										
Exam. Initial*	Cit	e		U	.S. Patent Doc	cument	Name of Patente	or Applicant	Date of Publication Cited Document	of Pages, Co	
unuai	140		Num	ber		Kind Code <sup>2</sup> (If known)		of Cited Document		Relevant Passages or Relevant Figures Appear	
280			200	4/0	225742	A1	Loaiza,	et al	11/11/2004		_
•		_						_			
							<u> </u>	l			
Exam.	Cit			For	eign Patent D		FOREIGN PATENT DO	CUMENTS tee or Applicant	. Date of	Pages	
Initial*	No		Offic		Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)	of Cited	Document	Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		$\neg$								Арреаг	
								<del>;</del>			
	-	-									
	OTHER ART - NO PATENT LITERATURE DOCUMENTS										
	kaminer nitials*  Cite No!  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published						ation <sup>2</sup>				

Examiner Signature

Date Considered

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Attorney Docket No. 50277-1763

IN THE UNITED STATES PATEN	IT AND TRADEMARK OFFICE
In re application of:	
Saskilsanth Chandus alsanan at al	) Confirmation No.: 2140
Sashikanth Chandrasekaran, et al.	) Examiner: Te Y. Chen
Serial No.: 10/056,716	
Filed on: January 22, 2002	) Group Art Unit No.: 2161
For: SEMANTIC RESPONSE TO LOCK REQ OVERHEAD IN MULTI-NODE SYSTEM	•
Mail Stop RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	
INFORMATION DISCLO	OSURE STATEMENT
Sir:	
Enclosed is a copy of Information Disclosu	ure Citation Form PTO-1449 together with
copies of the documents cited on that form, if need	ded. It is respectfully requested that the cited
documents be considered and that the enclosed Inf	formation Disclosure Citation Form PTO-1449
be initialed by the Examiner to indicate such consi	ideration and a copy thereof returned to
applicant(s).	
Pursuant to 37 C.F.R. § 1.97, the submission	on of this Information Disclosure Statement is
not to be construed as a representation that a secre	h has been made and is not to be construed as

construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

<u>X</u>	37 C.F.R. §1.97(b).
	37 C.F.R. §1.97(c). If so, then this Information Disclosure Statement includes one of the following:
	A statement pursuant to 37 C.F.R. §1.97(e)

The Examiner is hereby notified that the present application is related to the following related application(s):

DISCLOSURE OF RELATED APPLICATIONS

U.S. Application/ Pat. No.	File Date	Atty. Docket. No.					
-							
	-	-					
	·						

The related application(s) may contain subject matter that is related to the subject matter of the present application. The related application(s) may contain one or more claims that may be substantially similar to one or more claims in the present application, and those claims may have been rejected in the related application(s). Therefore, the Examiner is encouraged to review the file history(ies) of the related application(s) as some of the information contained therein may be material to the examination of the present application.

X The Examiner is hereby notified that for the following related application(s) an Office Action has been received as indicated below:

## DISCLOSURE OF OFFICE ACTIONS

94c 9/22/05

211 21 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21								
U.S. Application/	File Date	Office Action	Atty. Docket. No.					
Pat. No.		Mailing Date						
10/092,047	03/04/2002	03/09/2005	50277-1776					

The related application(s) may contain one or more claims that may be substantially similar to one or more claims in the present application, and those claims may have been rejected in the related application(s). Therefore, the Examiner is encouraged to review the file history(ies) of the related application(s) as some of the information contained therein may be material to the examination of the present application.

Throughout the pendency of this application, please charge any additional fees, including any required extension of time fees, and credit all overpayments to deposit account 50-1302.

## INFORMATION DISCLOSURE CITATION OF E CONTINUE IN AN APPLICATION :

(PTO-1449)

**ATTY. DOCKET NO.** 50277-1763

**SERIAL NO.** 10/056,716

APPLICANT:

Sashikanth Chandrasekaran, et al.

FILING DATE: January 22, 2002 GROUP: 2161

TIS	PATENT	DOCIR	PLANTS
U.J.	IMILITA		VIII I I I

				U.S. TATENT DOCUMENTS		
Exam. Initial*	Cite No.1	V.S. Patent Document  Number Kind Code <sup>2</sup> (If known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where
				mber Kind Code <sup>2</sup>		Relevant Passages or Relevant Figures Appear
280		4,438,494		Budde et al.	03-01-1984	Text
Ĭ		5,524,205		Lomet et al.	06-01-1996	Provided on
		5,933,838		Lomet	08-01-1999	CD-ROM
		5,966,706		Biliris et al.	10-01-1999	(11 Refs)
		6,067,550		Lomet	05-01-2000	
		6,151,607		Lomet	11-01-2000	]
		6,374,264	B1	Bohannon et al.	04-01-2002	
		6,434,555	B1	Frolund et al.	08-01-2002	
		6,449,623	B1	Bohannon et al.	09-01-2002	
		6,490,594	B1	Lomet	12-03-2002	
$\sqrt{}$		6,816,873	B2	Cotner et al.	11-01-2004	

Exam.	Cite	Foreign Patent Document			Name of Patentee or Applicant	Date of	Pages,	Т
Initial*	No. <sup>1</sup>	Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)	of Cited Document	Publication of Cited Document MM-DD-YYYY	Columns, Lines, Where Relevant Passages or Relevant Figures Appear	

OTHER ART – NO PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation <sup>2</sup>			

Examiner Signature The Then	Date Considered 9/22/05
-----------------------------	-------------------------

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

INF	ORM	IN AN A	DISCLOSURI APPLICATIO TO-1449)	ATTY. DOCKE 50277-1763 APPLICANT: Sashikanth Ch	SERIAL NO. 10/056,716 al.		
(B)	JUL 12	THE S			FILING DATE January 22, 20		GROUP: 2171 2/6/
*	Zª TRAD	EMARITA		U.S. PATENT DOCU	<b>IMENTS</b>		
Exam. Initial*	Cite No.	U.S. Pate	Kind Code <sup>2</sup> (If known)	Name of Patentee of Cited Do		Date of Publication Cited Document MM-DD-YYYY	Lines, Where
						RECE	IVED
						JUL 1	4-2004
						Technology (	Center 2190

10. <sup>1</sup>	Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup>	of Cited Document	Publication of Cited	Columns,	•
!			(if known)		Document MM-DD- YYYY	Lines, Where Relevant Passages or Relevant Figures Appear	
_	-					YYYY	Figures

	OTHER ART – NO PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation <sup>2</sup>					
976		Lory D. Molesky et al., "Database Locking Protocols for Large-Scale Cache-Coherent Shared Memory Multiprocessors: Design, Implementation and Performance," June 6, 1995, pp. 1-24.						
V		Lory D. Molesky et al., "Efficient Locking for Shared Memory Database Systems," March 1994, 28 pages.						

Examiner Signature	Le Le	Ju	Chen	Date Considered	9/2//05
					<del></del>

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

INI	FORM	IATION DISCLOSURE IN AN APPLICATIO (PTO-1449)	P E SOL	ATTY. DOCKET 50277-1763 APPLICANT: Sashikanth Char FILING DATE: January 22, 2002	ndrasekaran, et a	SERIAL No. 10/056,71 al. GROUP: 2161	
		· Property of	HANNATENT DOCU	<del></del>		2101	
Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document  Number Kind Code <sup>2</sup> (If known)	Name of Patentee of Cited Do	or Applicant	Date of Publication Cited Document MM-DD-YYYY	Lines,	Where vant ges or Figures
MC		5,410,697	Baird (	et al.	04-25-1995		
		5,551,046	Mohan	et al.	08-27-1996	;	
		5,596,754	Lon	iet	01-21-1997		
$\checkmark$		5,682,537	Davies	et al.	10-28-1997		
ſ							
	1		REIGN PATENT DO				
Exam. Initial*	Cite No. <sup>1</sup>	Foreign Patent Document  Office <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (If known)		tee or Applicant Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where	T <sup>6</sup>

OTHER ART – NO PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation <sup>2</sup>			
MAC		Rahm, E., "Concurrency and Coherency Control in Database Sharing Systems" (1993) pages 1-62.				

MM-DD-YYYY

Relevant Passages or Relevant Figures Appear

Signature Le In then 9/20/05	Signature	Te.	In		Date Considered
------------------------------	-----------	-----	----	--	-----------------

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

INI	PEZ	IATION DISCI IN AN APPL (PTO-1	ICATIO:		ATTY. DOCKE 50277-1763 APPLICANT: Sashikanth Ch	et NO.	SERIAL NO 10/056,716	
PATER	new	<b>(</b>			FILING DATE: January 22, 20		<b>GROUP:</b> 2161	
_~~	HADE			U.S. PATENT DOCU				
Exam. Initial*	Cite No. <sup>1</sup>			Name of Patente of Cited Do	e or Applicant	Date of Publication Cited Document MM-DD-YYYY	Pages, Colu Lines, Wh Relevant Pagent or Relevant Figures Ap	here ssages ant
me		2005/0149540	A1	Chan	et al.	07-07-2005	· iguito Ap	
			FOR	REIGN PATENT DO	OCUMENTS			
Exam. Initial*	Cite No. <sup>1</sup>	Foreign Patent Doct Office <sup>3</sup> Number <sup>4</sup> K		Name of Paten	lee or Applicant Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
Examir Initials		te Include name of	the author (in	NO PATENT LITER CAPITAL LETTERS), serial, symposium, catal	title of the article (wh	AENTS  nen appropriate), title of s), volume-issue number	the Translat	tion <sup>2</sup>
			pu	blisher, city and/or coun	try where published	,	×-71	

Examiner

Signature

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Date Considered

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.